

FIG. 1

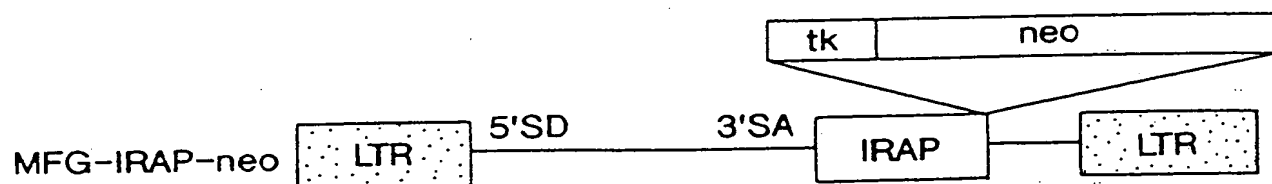


FIG. 2

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FIG. 3

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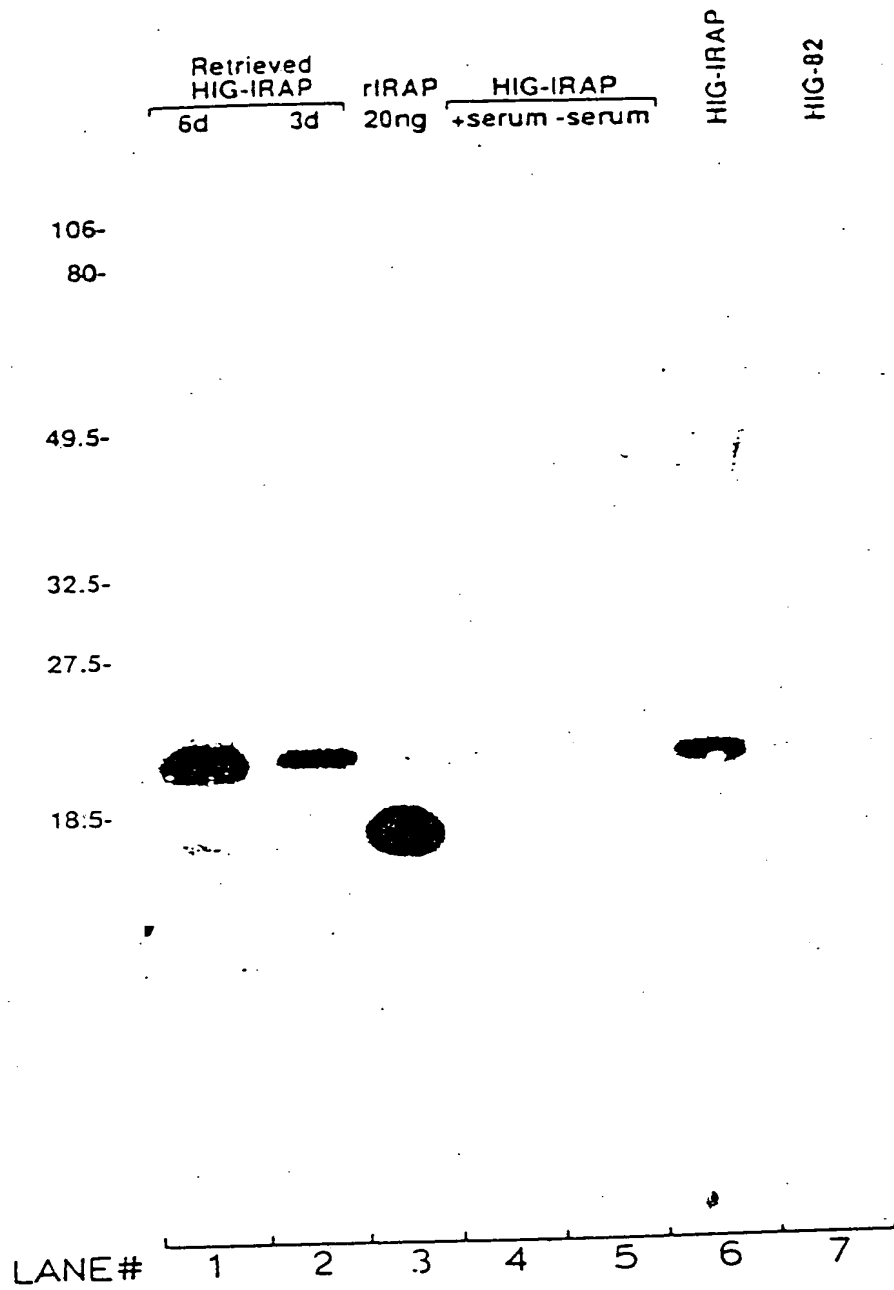


FIG. 4

Units Gelatinase/  
 $10^6$  Chondrocytes

% Inhibition

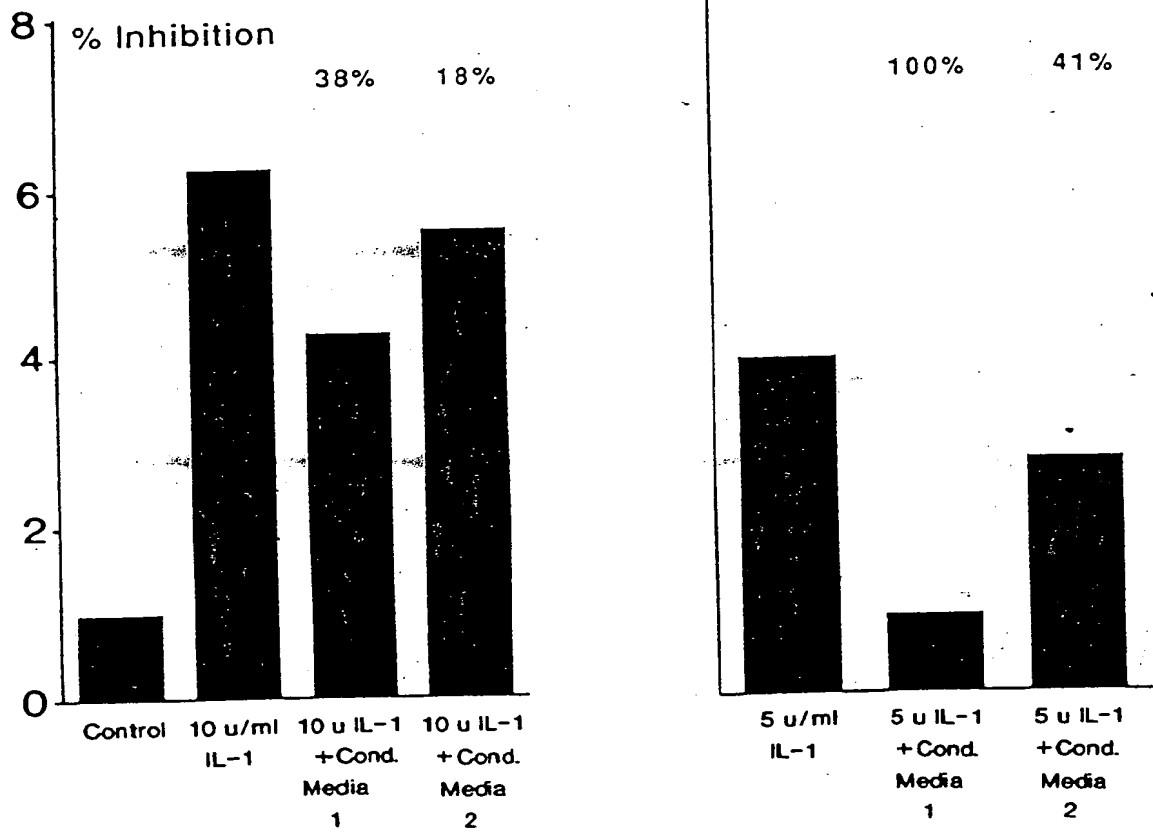


FIG. 5

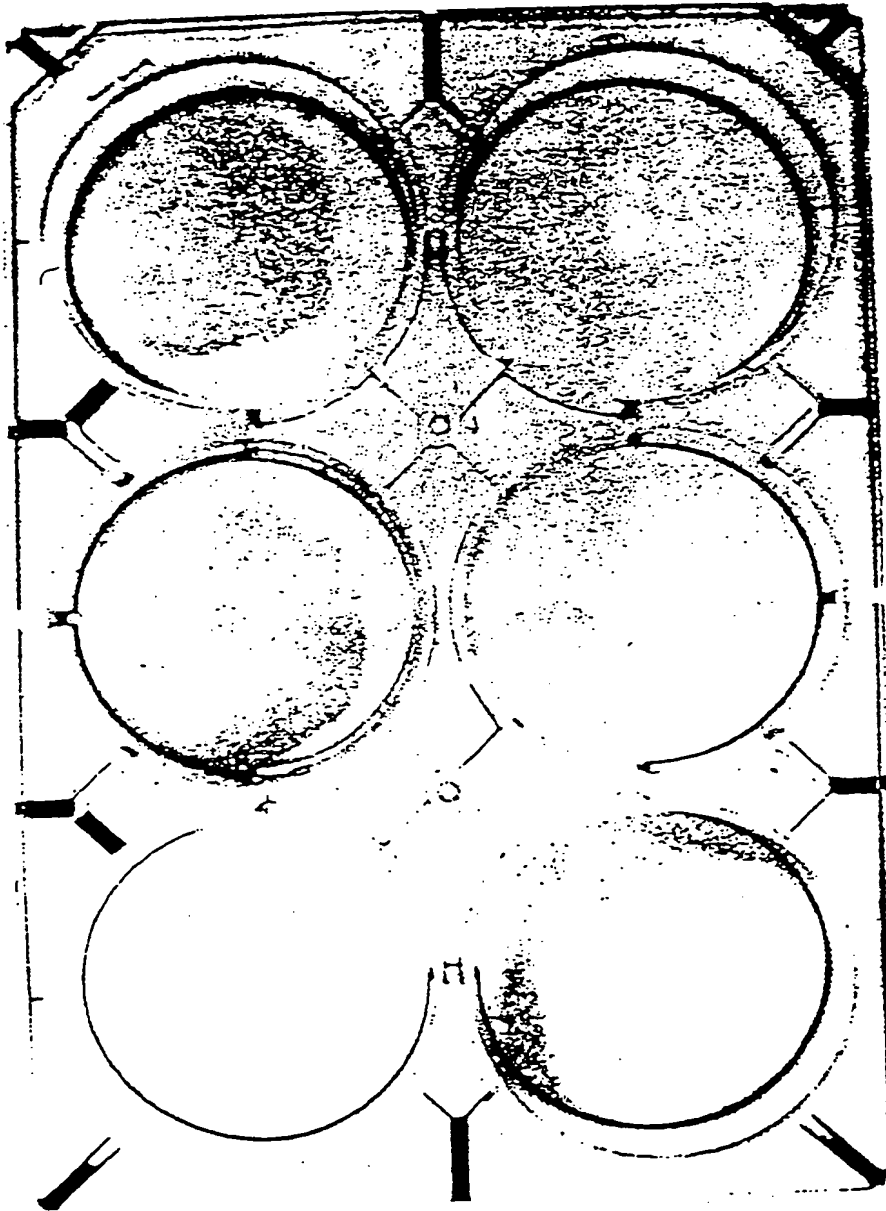


FIG. 6

005027 5/26 120500

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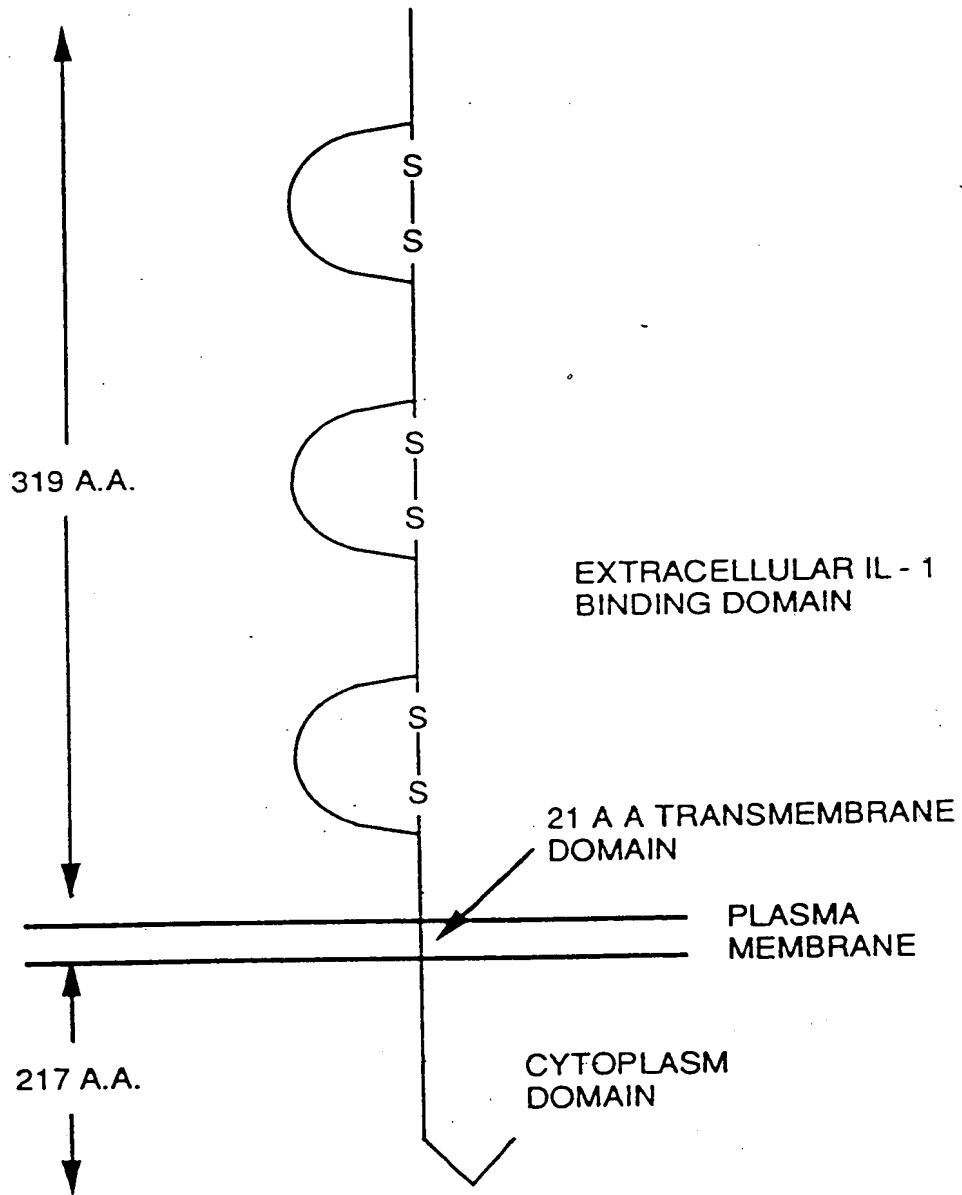


FIG. 7

5' \_\_\_\_\_ MetLysValLeuLeuArgLeuLeuCysPheIleAlaLeuLeuIleSerSer  
CCTCTGAGAAAGCTGGACCCCTTGGTAAAGACAAGGCCTTCTCCAAAGAGAATAATGAAGGTGTACTCAGACTTATTTGTTTCATAGCTCTACTGATTTCTTCT  
-1  
-1  
GGATGTCATCAGAGTTCCAGTGGCCCGAACCGTGAACAACACACAAATGGAGAATATGAAGTGTACTGGGCTCATTTGTCATCATGGTGCCTCTGCTG---TCG  
-1  
-1  
MetGluAsn\*\*\*\*\*Gly\*\*\*\*\*LeuMetValPro---Leu---  
LysGluAlaAspLysCysLysGluArgGluGluLysIleIleLeuValSerSerAlaAsnGluIleAspValIArgProCysProLeuAsnProAsnGlu---His  
34  
102  
CTGAGGCTGATAAATGAAGAACGCGAAGAAAAATAATTTAGTGTATCTGCAAAATGAAATTGATGTTCCTCTGCTCCCTGTCTTAACCCAAATGAA---CAC  
LysGluAlaAspLysCysLysGluArgGluGluLysIleIleLeuValSerSerAlaAsnGluIleAspValIArgProCysProLeuAsnProAsnGlu---His  
105  
35  
CTGGAGATTGACGTATGTACAGAAATATCCAAATCAGATCGTTTGTGTTTATCTGTAAATGAAATTGATATCGCAAGTGTCTCTTACTCCAAATAAAATGCAC  
\*\*\*\*\*Ile\*\*\*Val\*\*\*Thr\*\*\*TyrProAsnGln\*\*\*Val\*\*\*PheLeu\*\*\*Val\*\*\*Lys\*\*\*\*\*Ile\*\*\*Lys\*\*\*\*\*Thr\*\*\*\*\*LysMet\*\*\*  
LysGlyThrIleThrTrpTyrLysAspSerLysThrProValSerThrGluGlnAlaSerArgIleHisGlnHisLysGluLysLeuTrpPheValProAla  
69  
237  
AAAGGCACTATAACTTGGTATAAAGATGACAGCAAGACACCTGTATCTACAGAACACAGCCTCCAGGATTCATCACACAAGAGAAACCTTGGTTTGTCTCTGCT  
CGCGACACCATAATTTGGTACAAGAAATGACAGCAAGACCCCATATACAGCGGACCGGGACTCCAGGATTCATCAGAGAAATGAACATCTTGGTTTGTACCTTGCC  
210  
70  
GlyAsp\*\*\*\*\*Ile\*\*\*Asn\*\*\*\*\*AlaAspArgAsp\*\*\*\*\*GlnAsn\*\*\*His\*\*\*\*\*  
LysValGluAspSerGlyHisTyrTyrCysValValIArgAsnSerSerTyrCysLeuArgIleLysIleSerAlaLysPheValGluAsnGluProAsnLeuCys  
104  
312  
AAGGTGAAGATTACAGGACCTACTATTGCGTGGTAAGAAATTCATCTTACCTCAGAAATTAATAAATAGTGCAAAATTTGTGGAGAATGAGCCCTAACCTTATGT  
AAGGTGAAGGACTCAGGATATTACTATTGTATAGTAAGAACTCAACTTACTGCTCAAACTAAAGTAACCGTAACCTGTGTAGAGAATGACCTTGGCTTGTGT  
315  
105  
\*\*\*\*\*Tyr\*\*\*\*\*Ile\*\*\*Thr\*\*\*\*\*LysThr\*\*\*ValThrValThrValLeu\*\*\*Asp\*\*\*Gly\*\*\*  
TyrAsnAlaGlnAlaIlePheLysGlnLysLeuProValAlaGlyAspGlyValCysProTyrMetGluPhePheLysAsnGluAsnGluLeuPro  
339  
417  
TATAATGCACAGCCATATTTAAGCAGAACTACCGTTCAGGAGACGGAGGACTTGTGGCCCTATATGGAGTTTTTAAAAATGAAAAATAATGAGTTACCT  
TACAGCACACAGGCCACCTTCCACAGCGGCTCCACATTGCCGGGATGGAGTCTTGTGGCCCTATGTGAGTTATTTAAAGATGAAAAATAATGAGTTACCC  
420  
140  
\*\*\*SerThr\*\*\*\*\*Thr\*\*\*Pro\*\*\*Arg\*\*\*HisIle\*\*\*Ser\*\*\*\*\*ValSerTyr\*\*\*\*\*Asp\*\*\*  
LysLeuGlnTrpTyrLysAspCysLysProLeuLeuLeuAspAsnIleHisPheSerGlyValLysAspArgLeuIleValMetAsnValAlaGluLysHisArg  
174  
522  
AAATACAGTGGTATAAGGATTGCAAACTCTACTTCTTGACAATATACACTTTAGTGGAGTCAAAAGATAGGCTCATCTGATGAATGTGGCTGAAAAAGCATAGA  
GAGGTCCAGTGGTATAAGAACTGTAAACCTCTGCTTCTTGACAACGTGAGCTTCTTCGGAGTAAAGATAAACCTGTGGTGAAGAAATGTGGCTGAAGAGCACAGA  
525  
175  
GluVal\*\*\*\*\*Asn\*\*\*\*\*ValSer\*\*\*Phe\*\*\*\*\*Lys\*\*\*\*\*Leu\*\*\*Arg\*\*\*\*\*Glu\*\*\*  
GlyAsnTyrThrCysHisAlaSerTyrThrTyrLeuGlyLysGlnTyrProIleThrArgValIleGluPheIleThrLeuGluGluAsnLysProThrArgPro  
229  
627  
GGGAACATACTTGTCATGCATCTACACATACTTGGGCAAGCAATATCTTATCCCGGGTAATAGAATTTATCTCTAGAGGAAAAACCAACCCACAGGCCCT  
GGGGACTATATATGCGTATGCTCTATAGCTCCGGGGGAAGCAATATCCGGTACACACAGGTAATACAAATTTATCACAAATAGATGAAAAACAAGAGGACAGACCT  
630  
210  
\*\*\*Asp\*\*\*Ile\*\*\*ArgMet\*\*\*\*\*PheArg\*\*\*\*\*Val\*\*\*\*\*Gln\*\*\*\*\*IleAsp\*\*\*\*\*ArgAsp\*\*\*

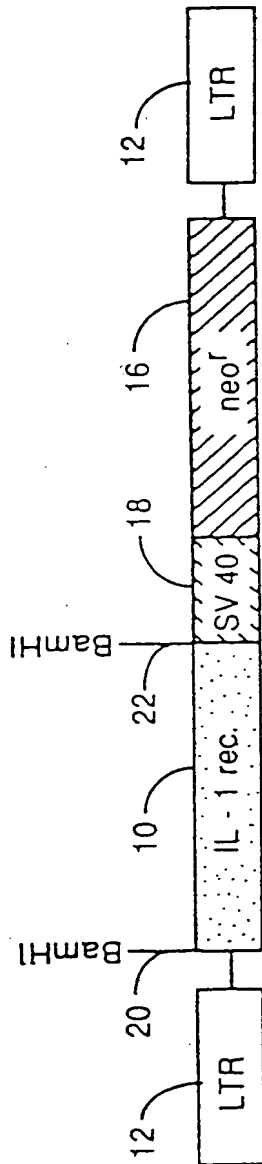
FIG. 8A

BB  
8  
G  
F/G



FIG. 8C

Structure Of The PLJ - ILrec Retroviral Vector  
And Partial Restriction Endonuclease Map



LTR - Long Terminal Repeats - Regulates Viral  
Transcription And Expression Of IL - 1 Receptor

neo<sup>r</sup> - Bacterial Gene Encoding Resistance To The  
Antibiotic Neomycin

SV 40 - Simian Virus 40 Enhancer Promoter - Regulates  
Expression Of The neo<sup>r</sup> Gene

FIG. 9

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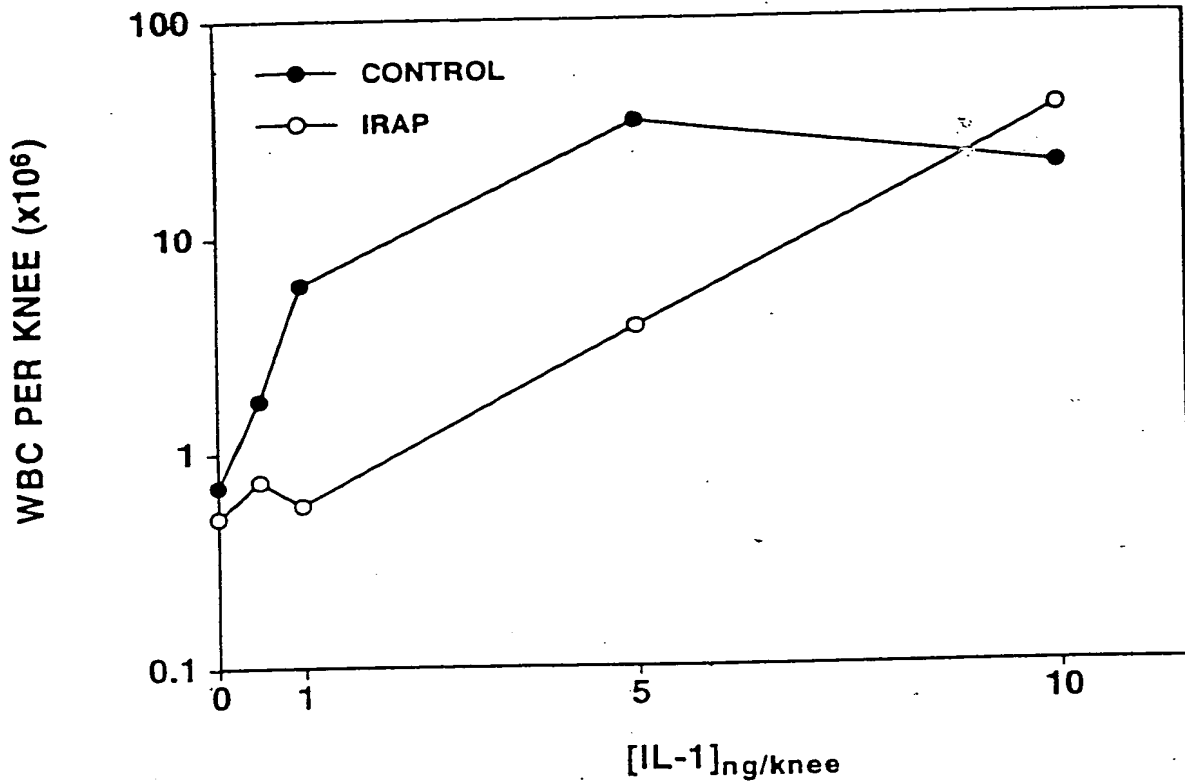


FIG. 10

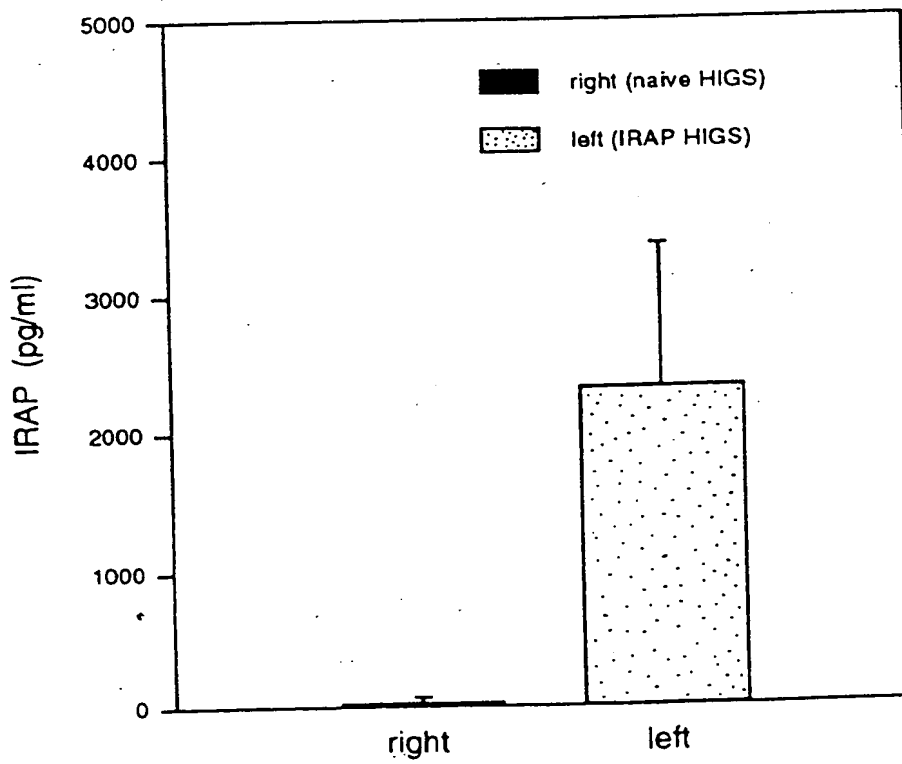


FIG. 11

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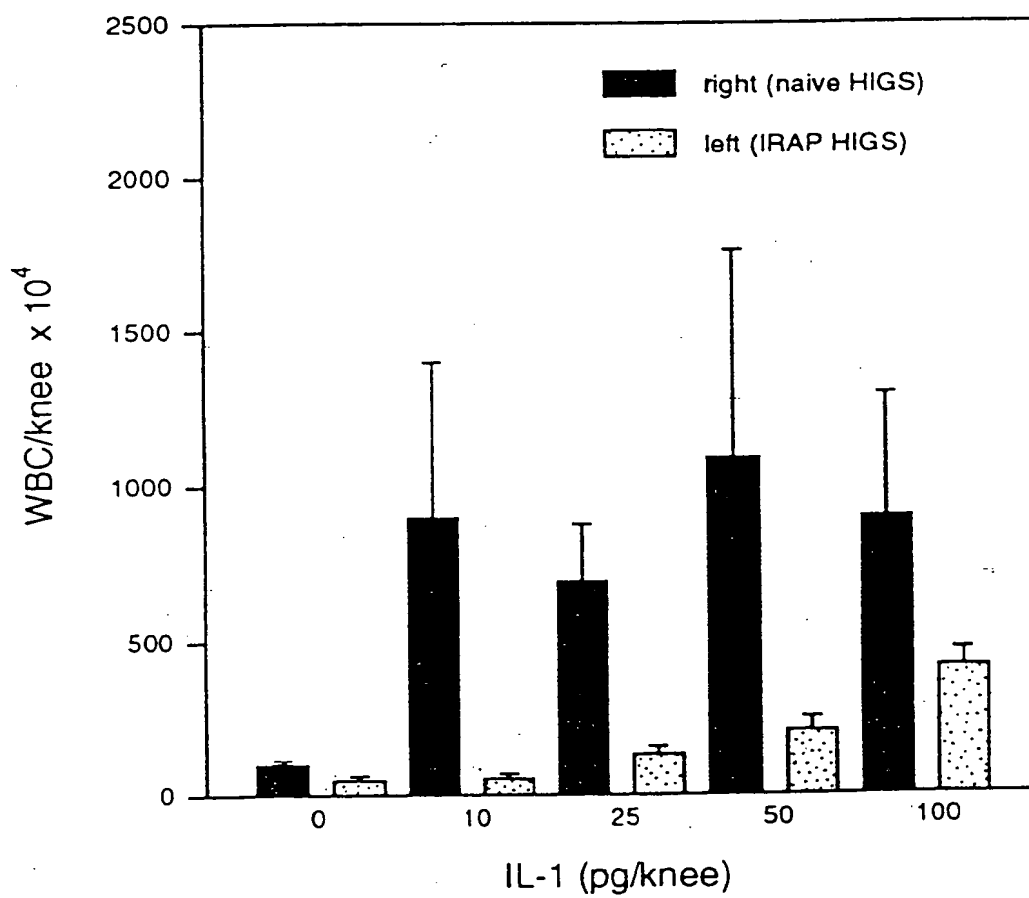


FIG. 12A

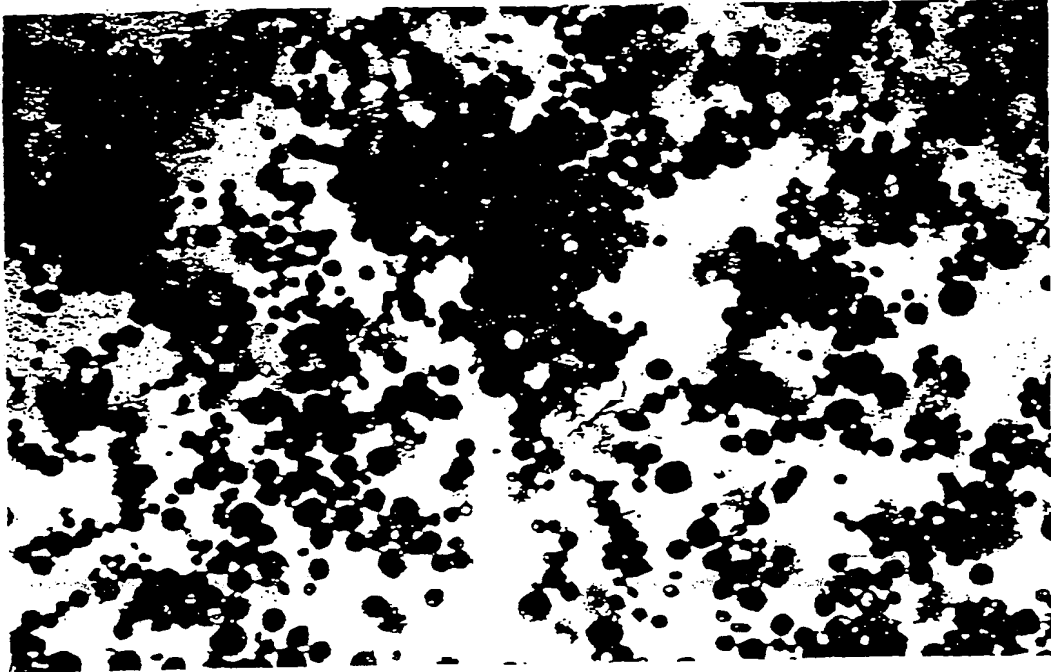


FIG. 12B

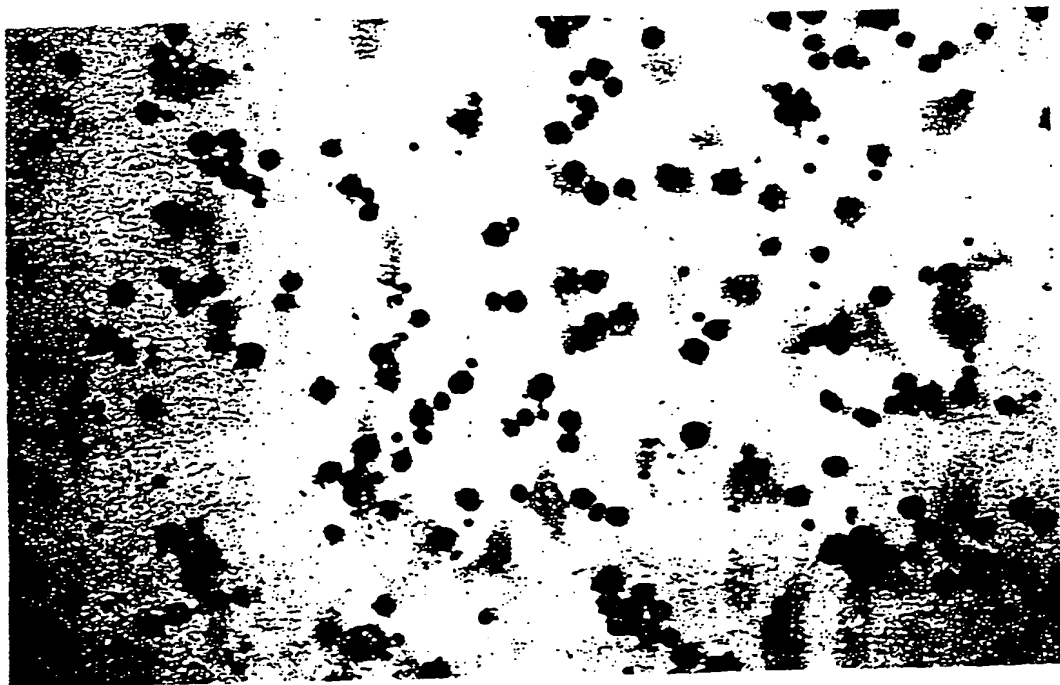


FIG. 12C

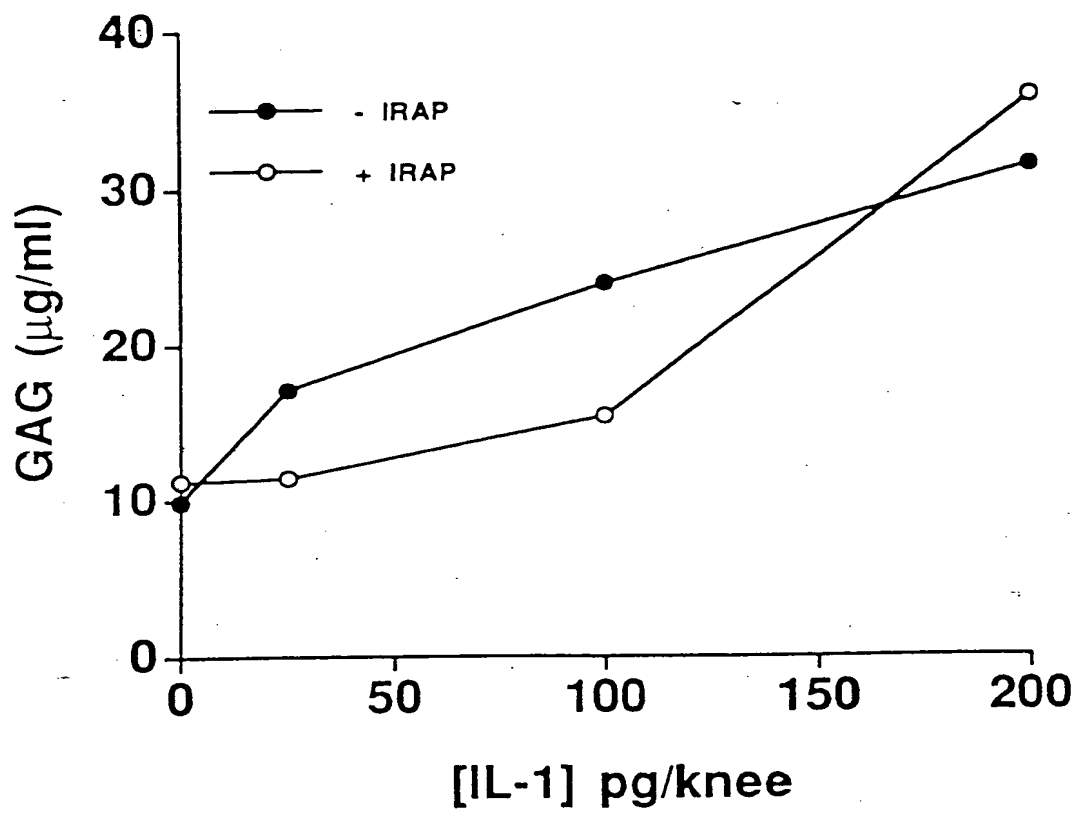


FIG. 13

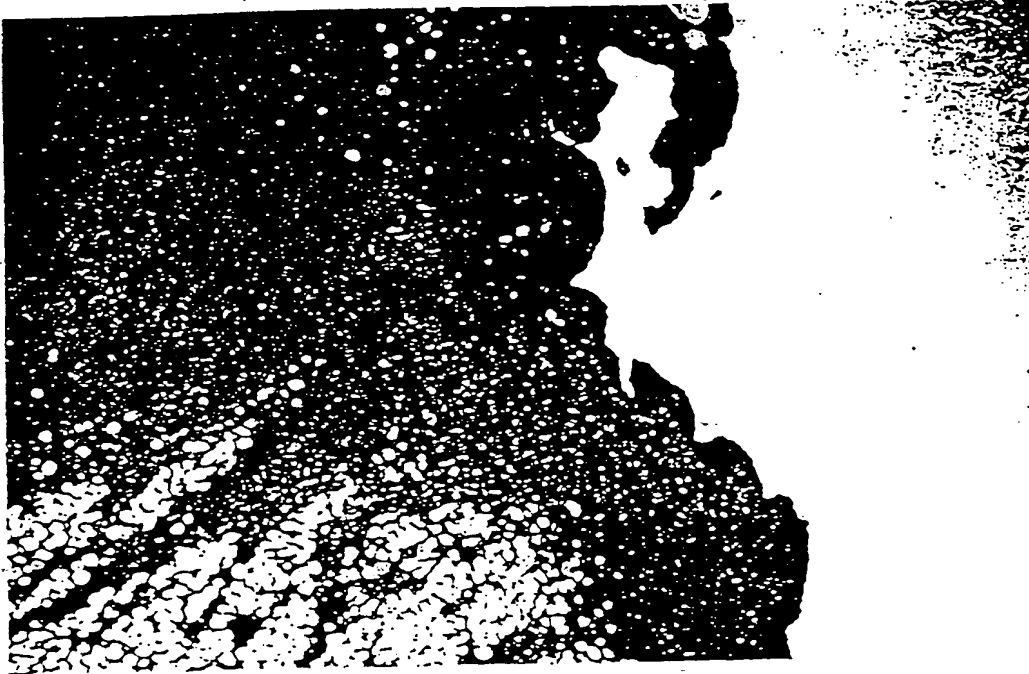


FIG. 14A



FIG. 14B

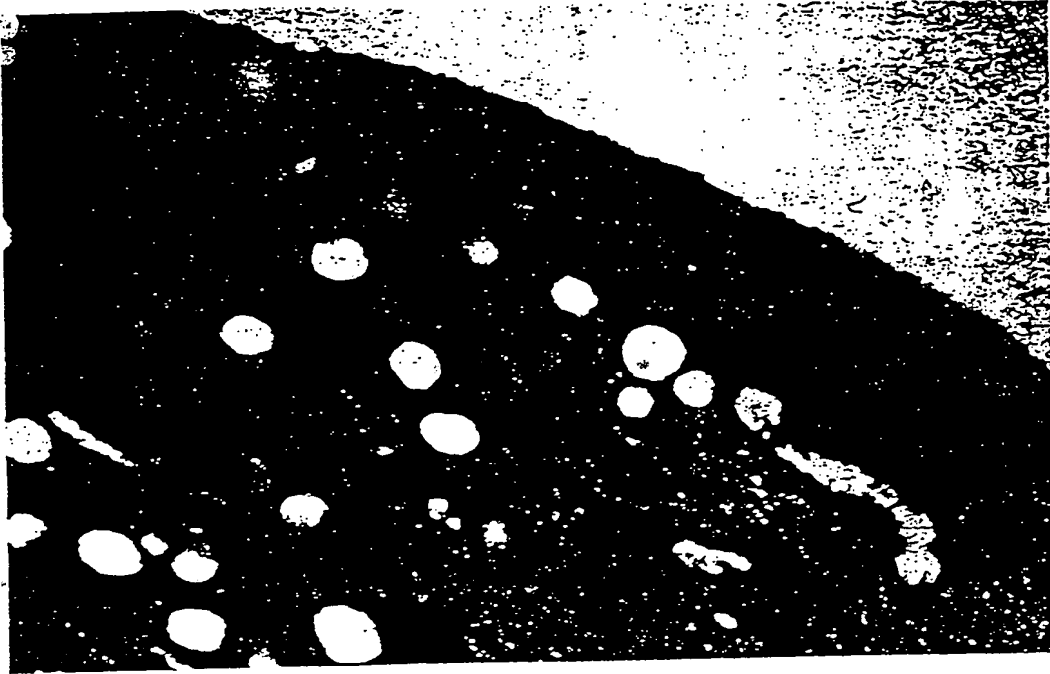


FIG. 14C

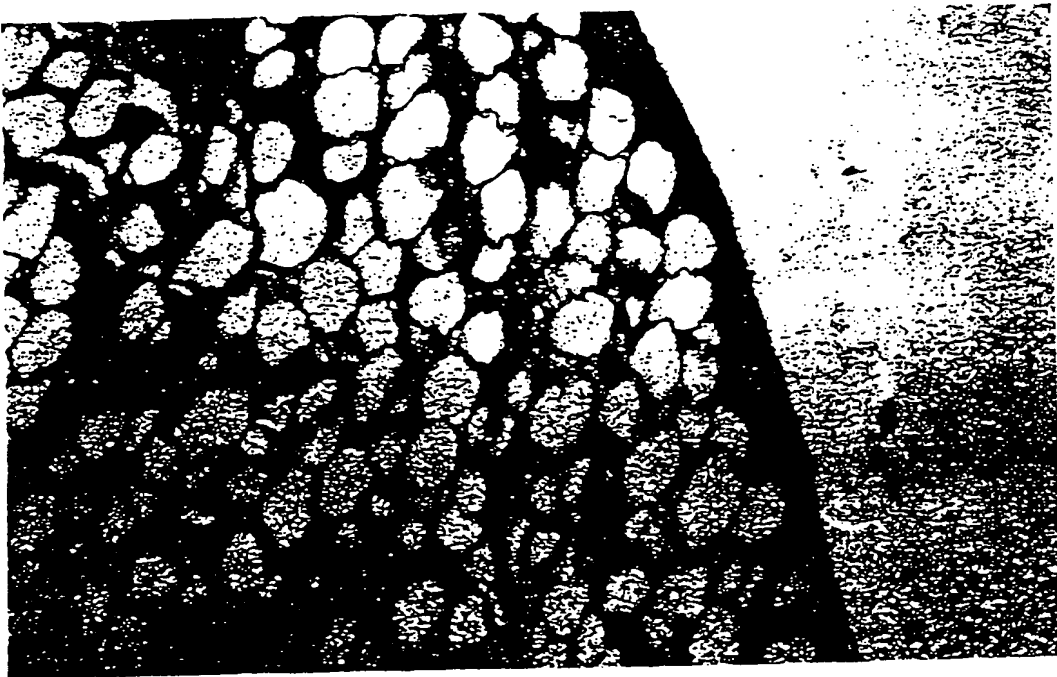


FIG. 14D



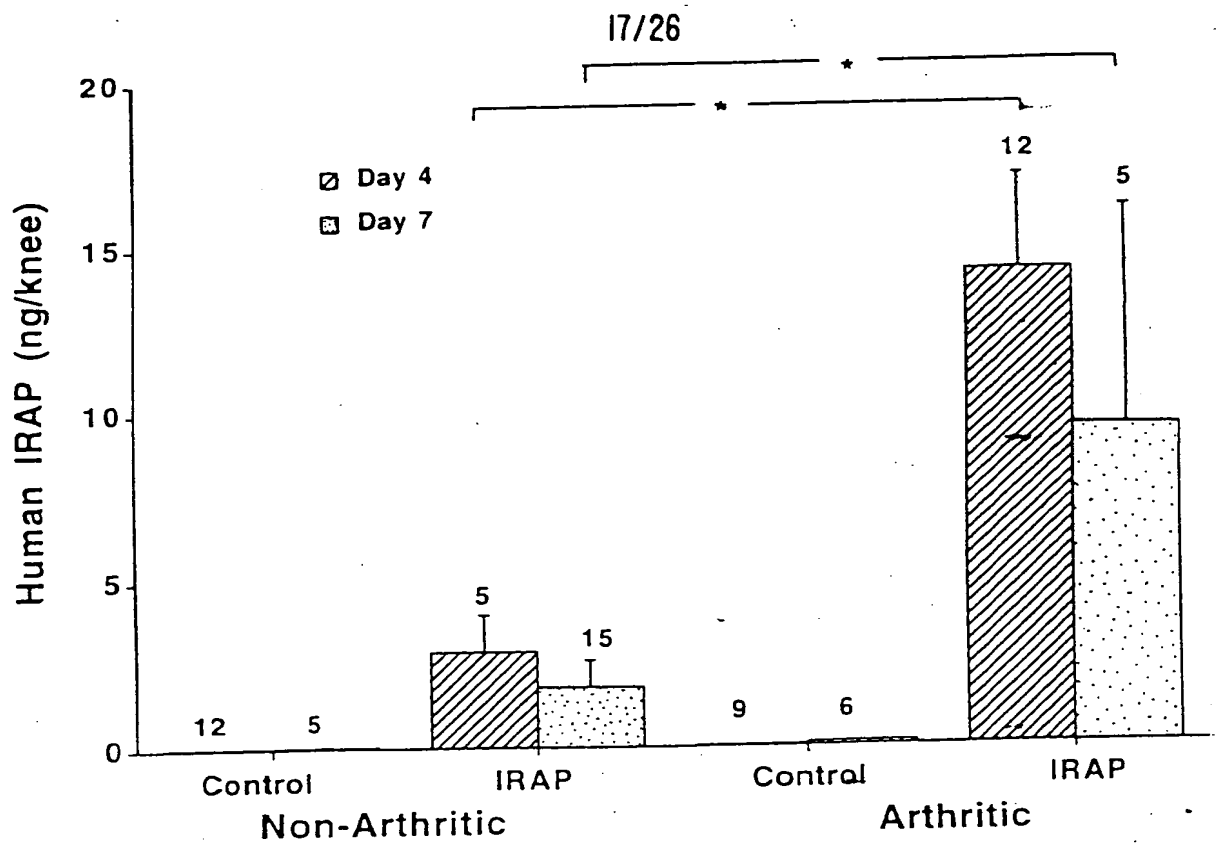


FIG. 15

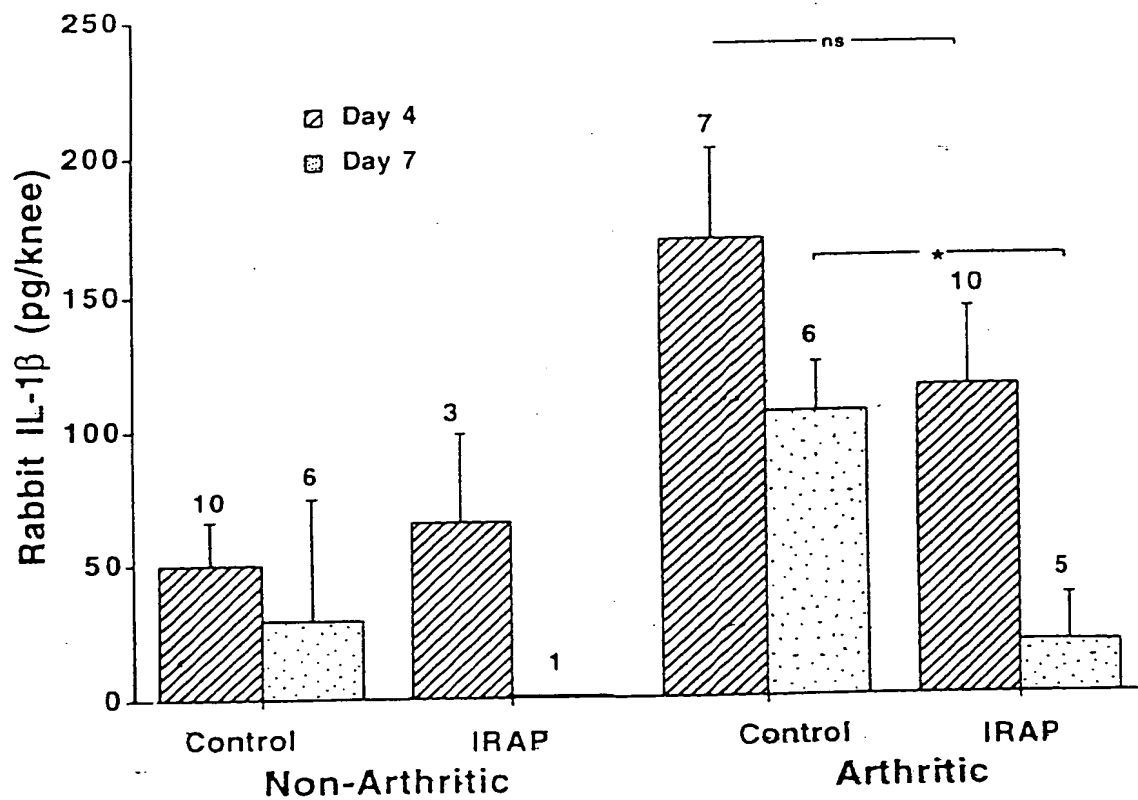


FIG. 16

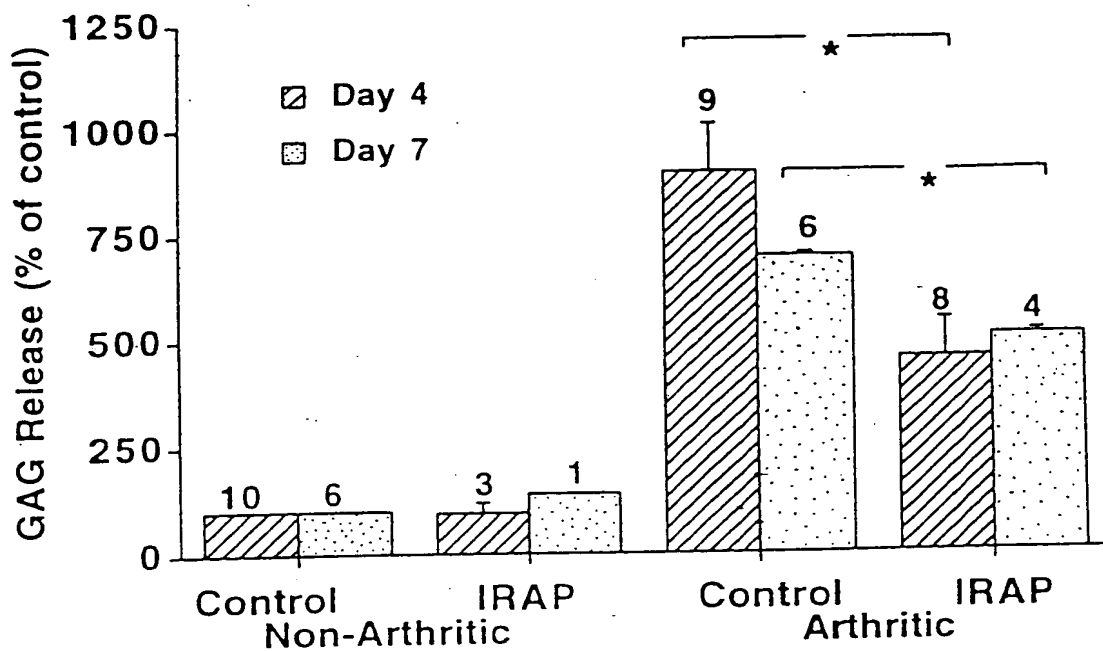


FIG. 17A

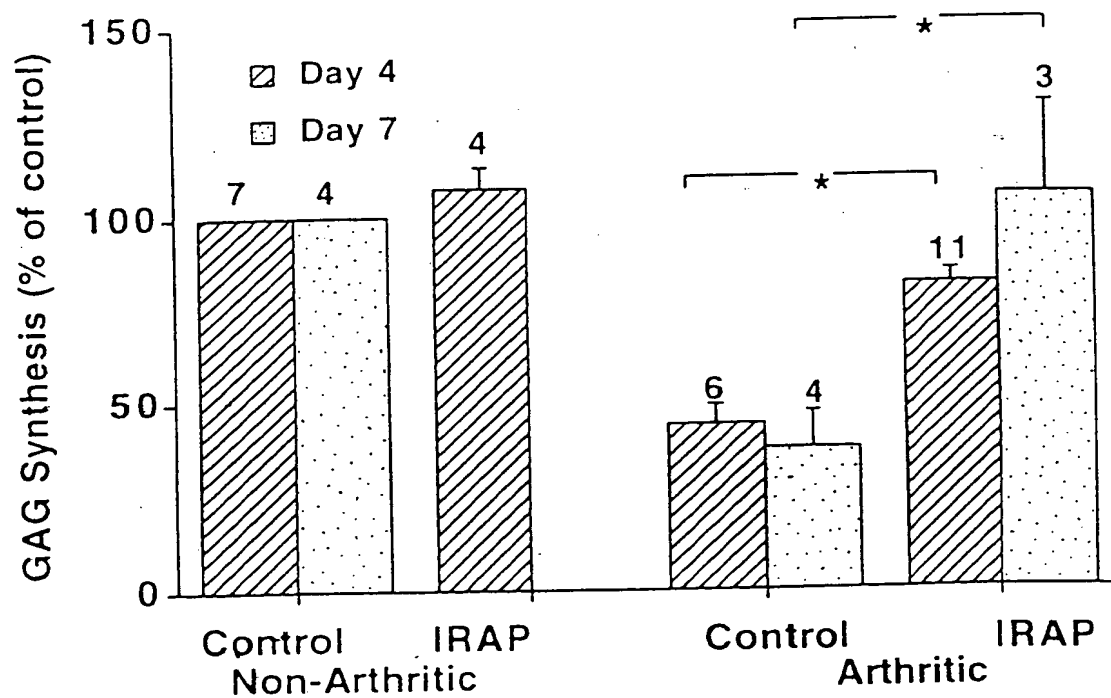


FIG. 17B

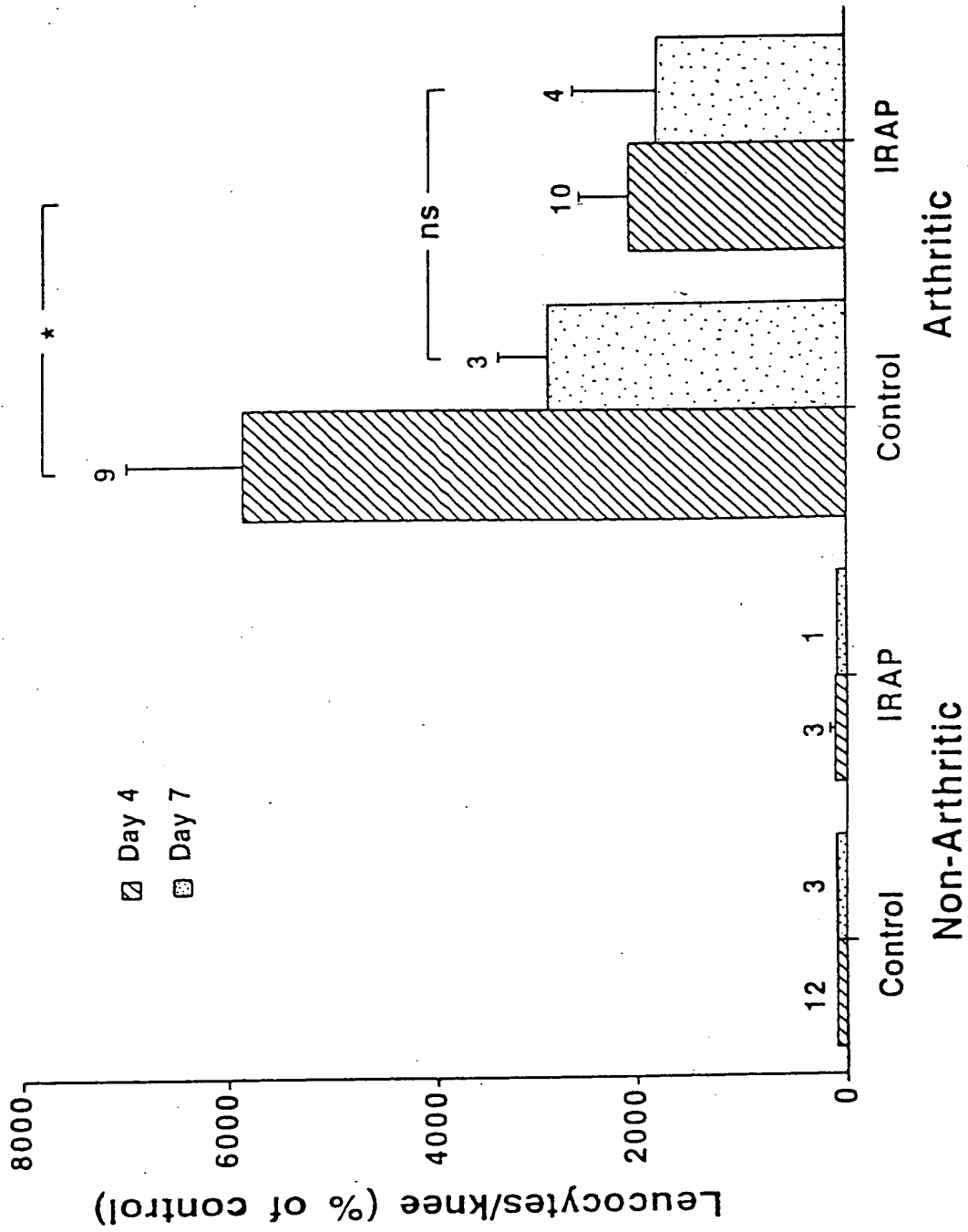


FIG. 18

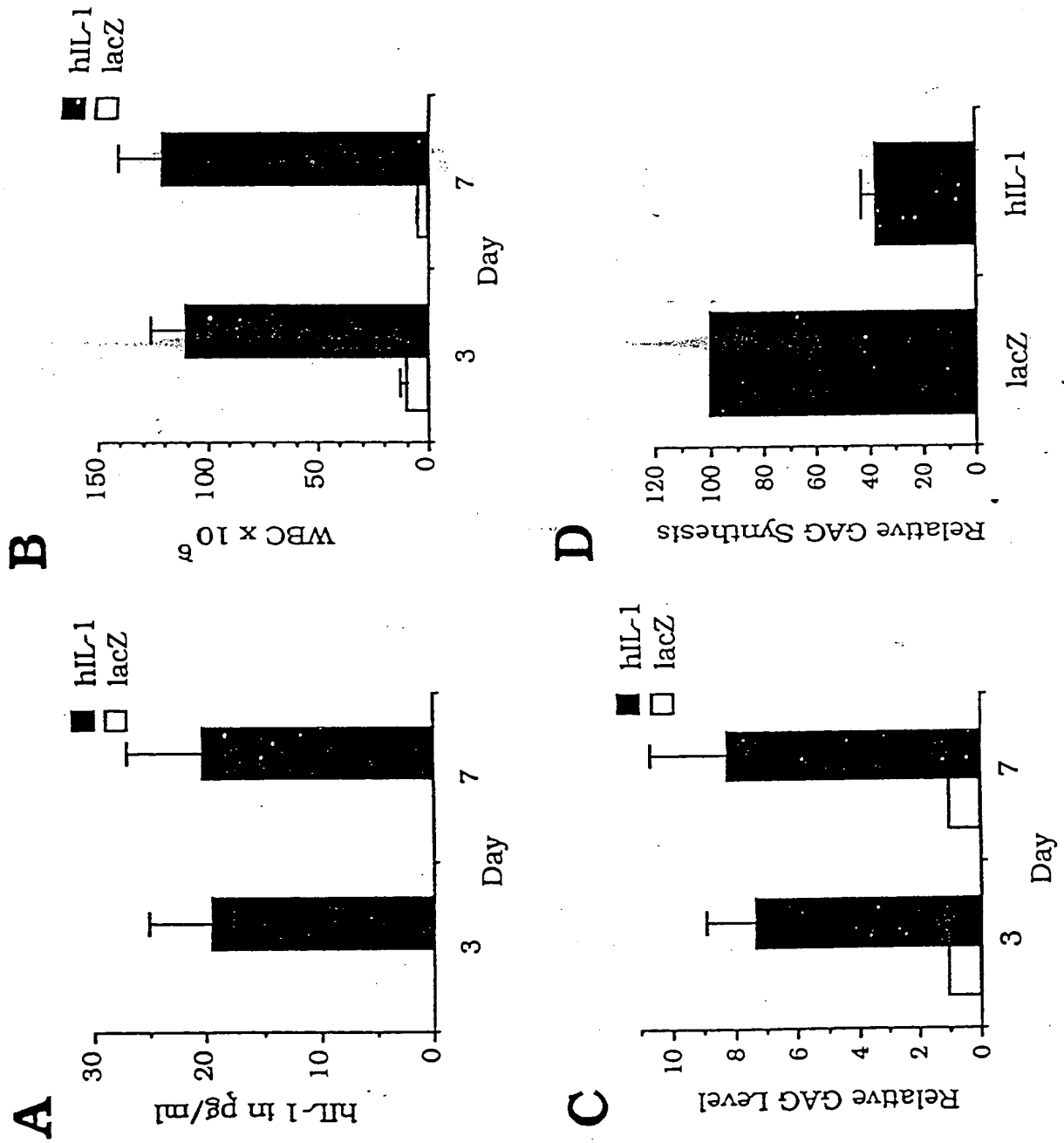


FIG. 19.

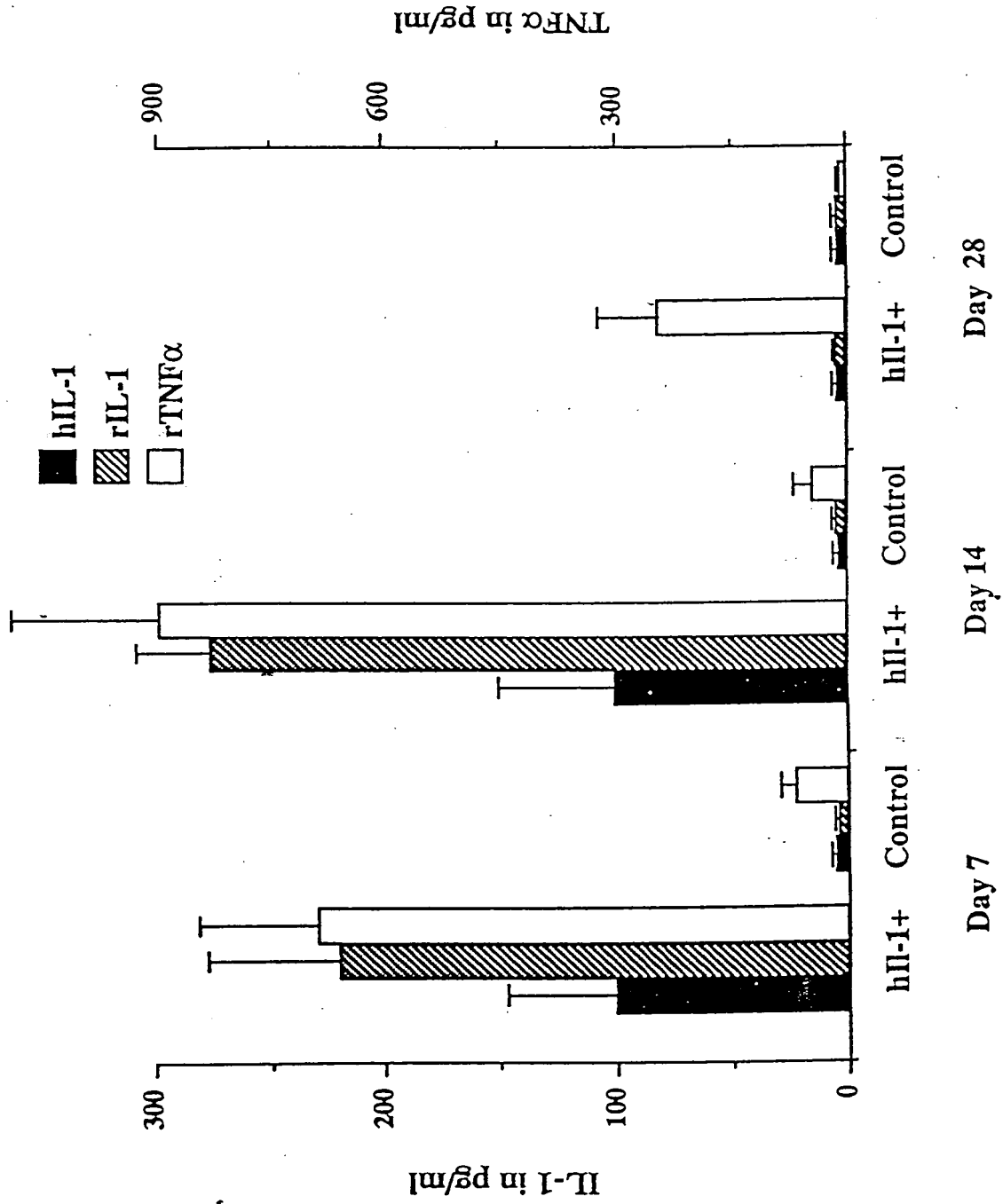


FIG. 20.

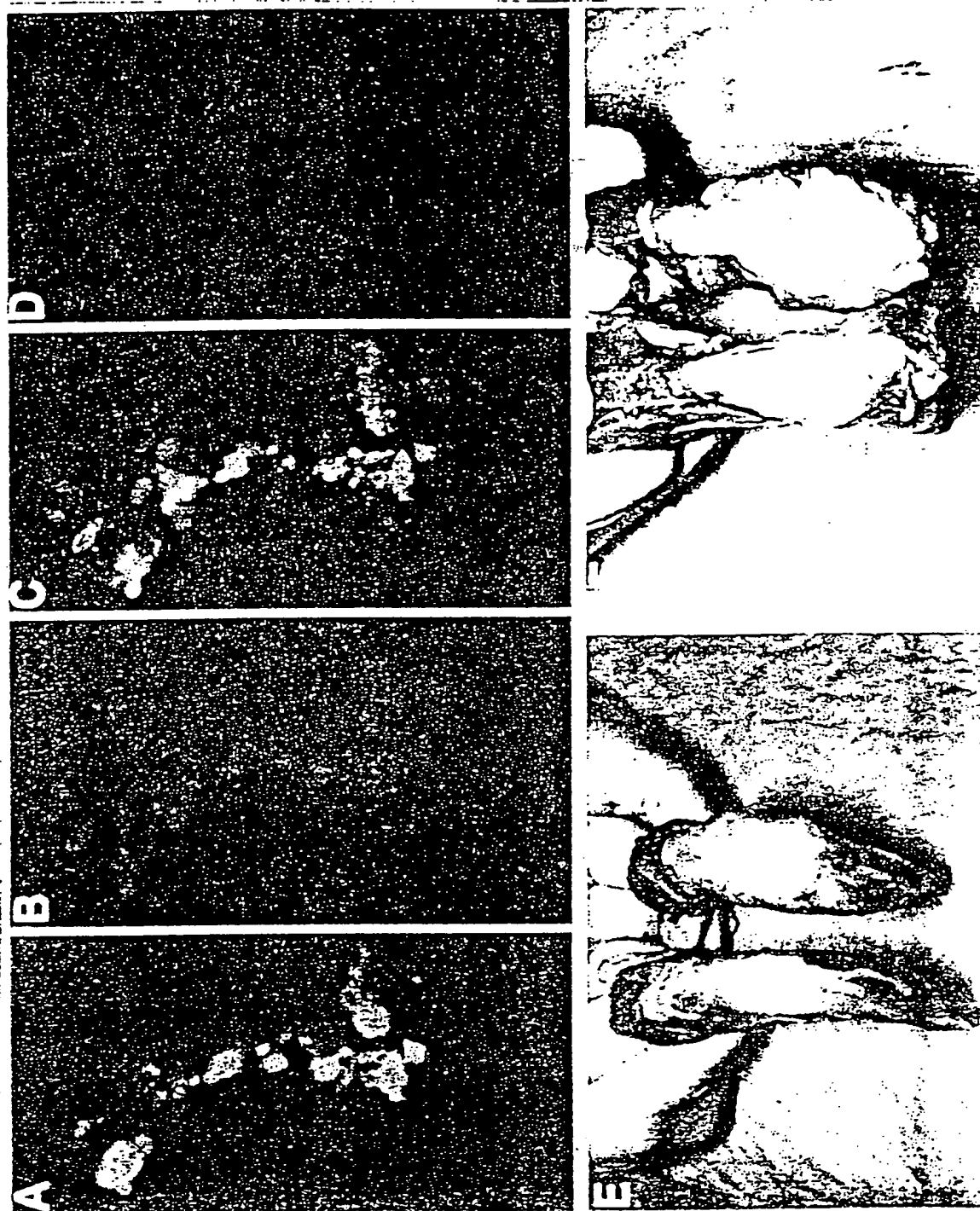


FIG. 21.

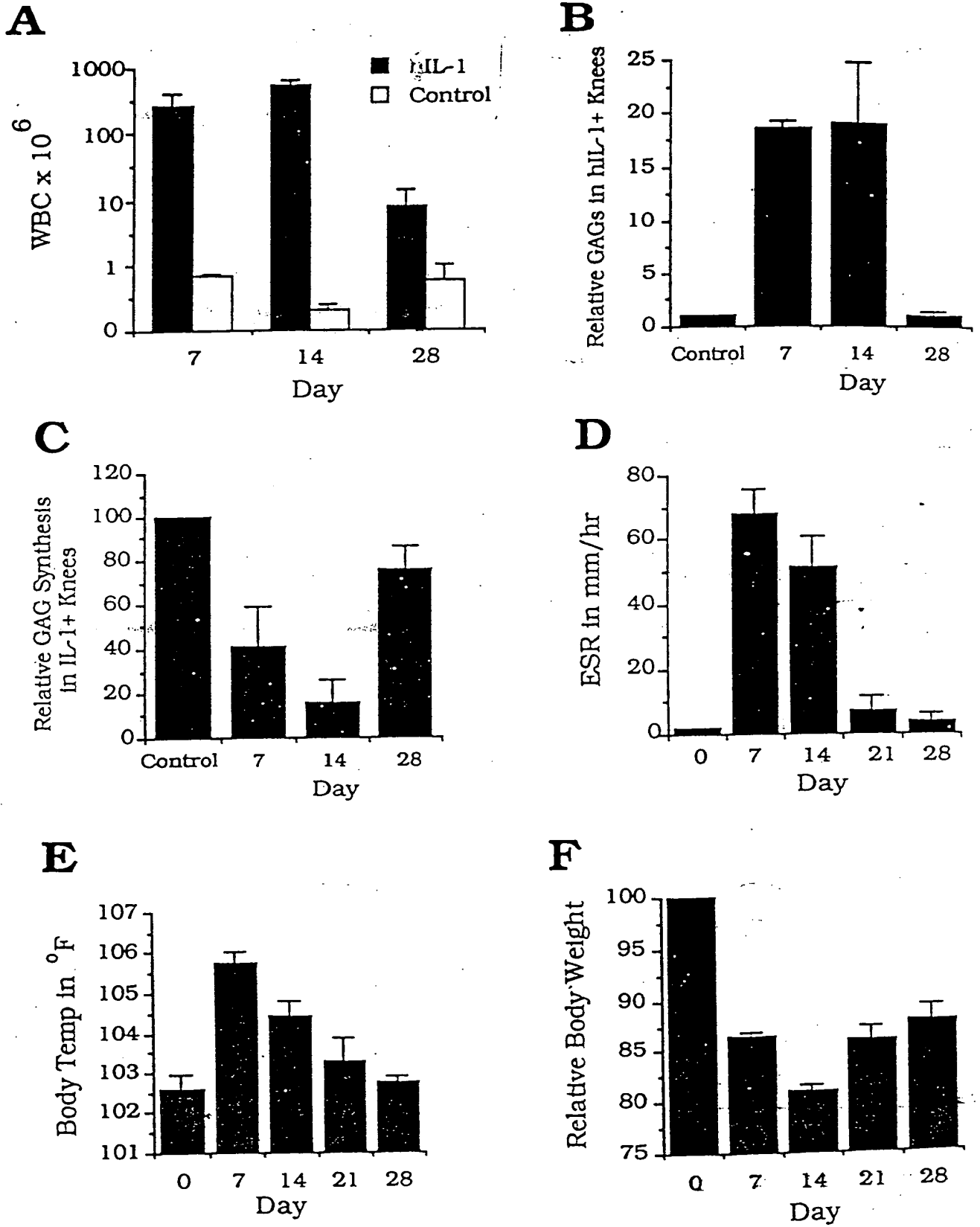


FIG. 22.

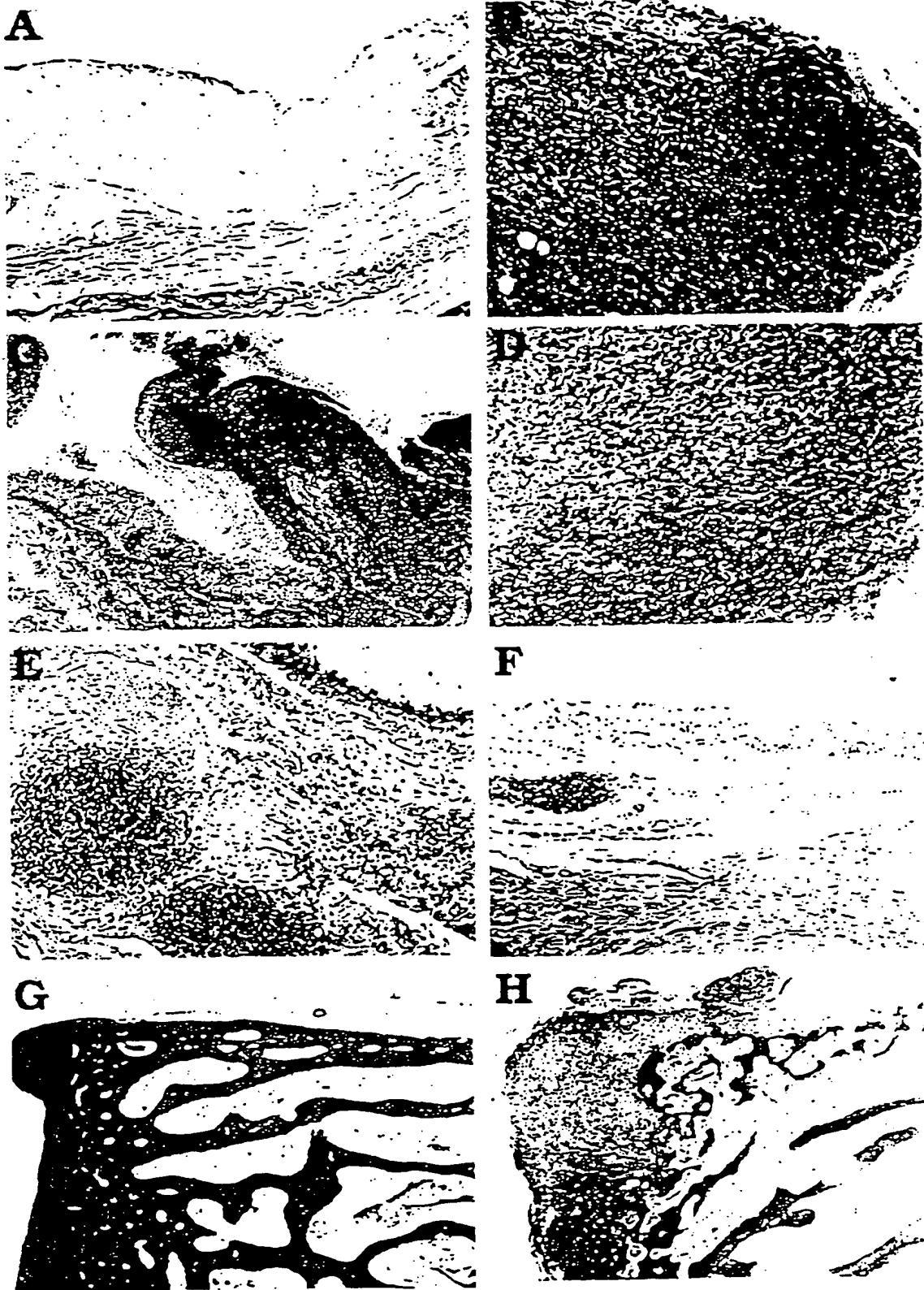


FIG. 23.



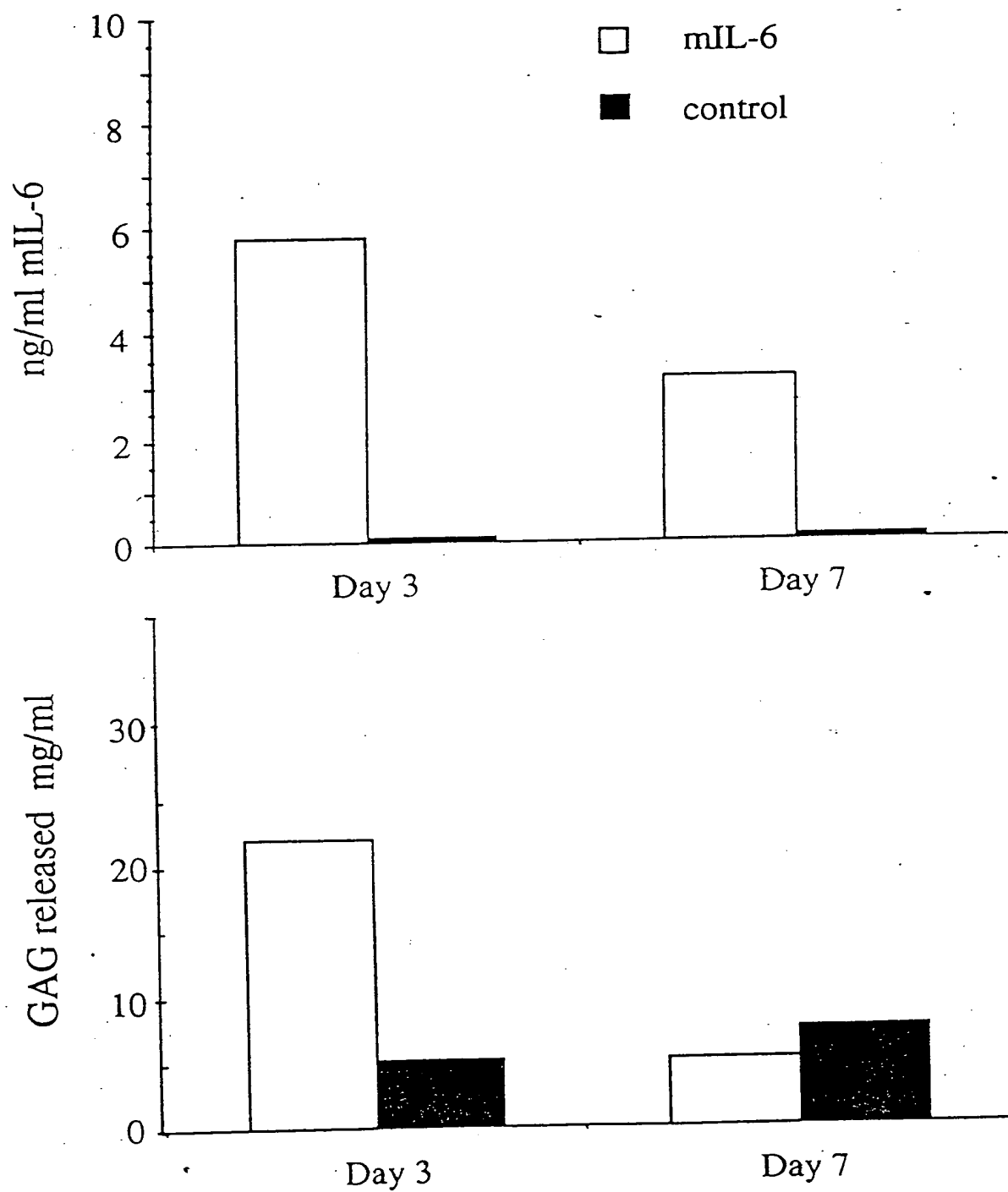


FIG. 24.

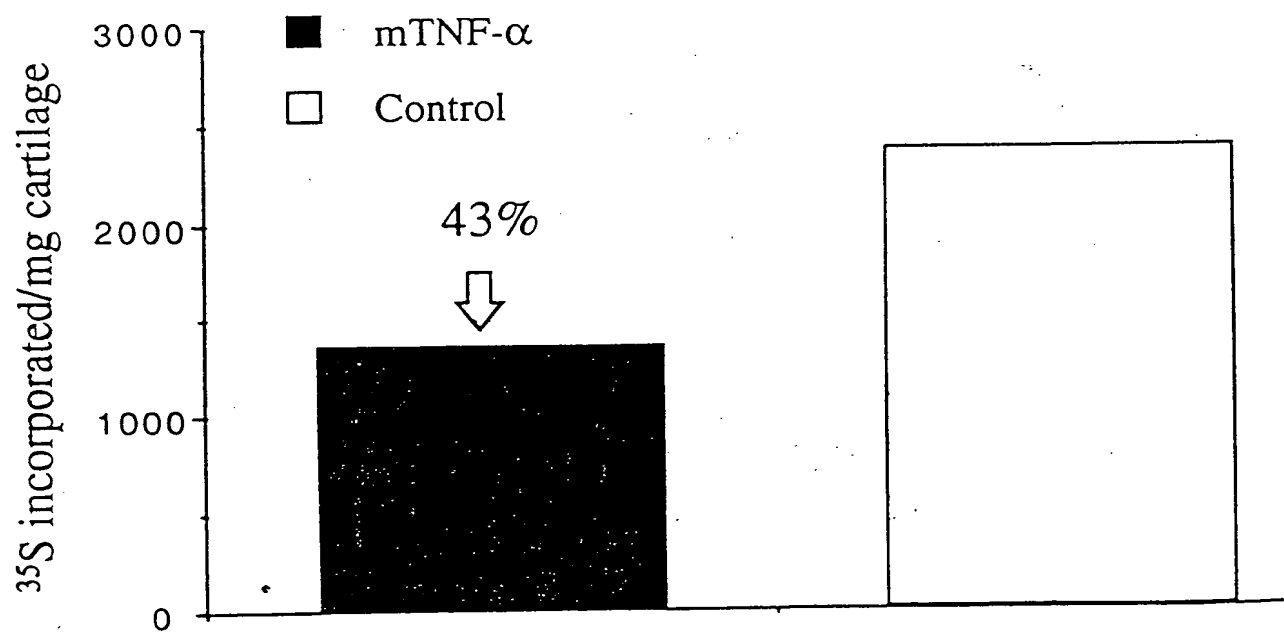
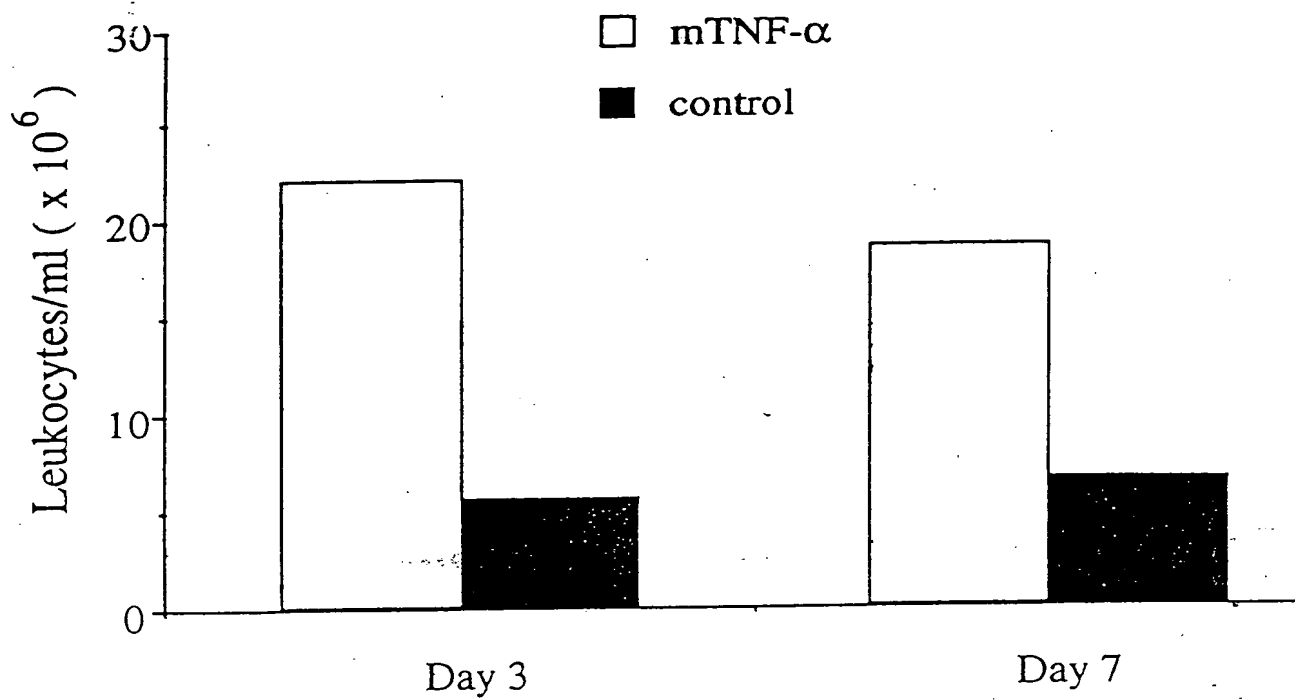


FIG. 25.